

Amendments to the Claims:

This listing of claims will replace all prior versions, and lists, of claims in the application:

1. (Currently amended) A method of heating a kiln used in the manufacture of producing cement clinker comprising:

providing a kiln;

providing a raw feed comprising limestone, clay and an organic waste/mineral by-product mixture;

burning a fuel comprising an organic waste/mineral by-product mixture to heat the kiln;

liberating ammonia from the organic waste/mineral by-product mixture during the burning of the fuel to reduce NO_x emissions from exhaust gases; and

heating the raw feed to form cement clinker,

wherein the organic waste/mineral by-product mixture comprises an alkaline material, the organic waste being comprised of a material selected from the group consisting of dewatered sewage sludge filter cake, animal manure, pulp and paper waste, fermentation waste, shredded paper and cardboard, and food waste, the mineral by-product being comprised of a coal combustion by-product comprising one or more materials selected from the group consisting of fly ash, bottom ash, fluidized bed ash, boiler slag and flue gas desulfurization by-products.

2.-3. (Canceled)

4. (Previously Presented) The method of claim 1 wherein said alkaline material comprises one or more materials selected from the group consisting of lime, calcium hydroxide, limestone, cement kiln dust and lime kiln dust.

Serial No. 10/699,463

Docket : NVI 0016 PA/37249.27

5. (Original) The method of claim 1 wherein said fuel further comprises one or more materials selected from the group consisting of coal, pet coke, oil, natural gas and hazardous waste.

6. (Original) The method of claim 5 wherein said fuel further comprises pet coke.

7. (Original) The method of claim 1 wherein said organic waste/mineral by-product mixture has a solids content of at least about 50%.

8. (Original) The method of claim 1 wherein said organic waste/mineral by-product mixture has a solids content of at least about 75%.

9. (Original) The method of claim 1 wherein said organic waste/mineral by-product mixture has a solids content of at least about 90%.

10. (Canceled)

11. (Original) The method of claim 1 wherein said organic waste/mineral by-product mixture has a pH of at least about 9.5.

12.-34. (Canceled)